Calculate the quantities shown assuming a 120 V AC source and an RL = 10  for all inductors

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Value** | **Total Resistance = RL + R** | **Impedance Rectangular** | **Real Power** | **Reactive Power** | **Apparent Power** | **Power Factor** |
| 47 mH  f = 1 kHz |  |  |  |  |  |  |
| 3.3 mH  f = 1 kHz |  |  |  |  |  |  |
| 22 nF  f = 1 kHz |  |  |  |  |  |  |
| 1 F  f = 1 kHz |  |  |  |  |  |  |
| 15   f = 1 kHz |  |  |  |  |  |  |
| 300   f = 1 kHz |  |  |  |  |  |  |
| 300 + 47 mH  f = 1 kHz |  |  |  |  |  |  |
| 15 + 3.3 mH  f = 1 kHz |  |  |  |  |  |  |
| 4.7 k + 22 nF  f = 1 kHz |  |  |  |  |  |  |